## How Do Oronasal Masks Affect Upper Airway Anatomy and Collapsibility?



## **STUDY DESIGN**

RESULTS

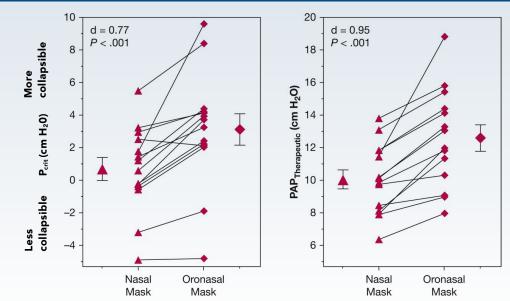
14 patients with OSA underwent a sleep study with both a nasal and oronasal mask (each for ½ the night) with manual titration of CPAP



Upper airway collapsibility assessed using **pharyngeal critical closing pressure (P**<sub>crit</sub>)



**Dynamic cine MRI** to assess cross-sectional area of retroglossal and retropalatal airway with each mask



CPAP delivered via an oronasal mask worsens airway anatomy and collapsibility, resulting in increased CPAP level required to induce stable nonflow limited breathing.

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